

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 02-102320PC	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/US 01/ 01162	International filing date (day/month/year) 10/01/2001	(Earliest) Priority Date (day/month/year) 11/01/2000
Applicant MAXYGEN, INC. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/01162

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C12N5/06 A61K39/385 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, CHEM ABS Data, EPO-Internal, BIOSIS, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 849 589 A (ZHOU LIANG-JI ET AL) 15 December 1998 (1998-12-15) see Table 1 especially CD83+ Blood DC column 4, line 28 - column 7, line 6; claims column 9, line 7 - line 12 column 11, line 6 - line 25 column 11, line 44 - line 48 column 11, line 58 - line 61 ---	33-50, 52-60, 68,69
X	US 5 994 126 A (SCHULER GEROLD ET AL) 30 November 1999 (1999-11-30) example 6.3 --- -/--	33-41, 52-59, 68,69

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

28 May 2001

Date of mailing of the international search report

22/06/2001

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Authorized officer

Pilat, D

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/01162

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 808 897 A (IDM IMMUNO DESIGNED MOLECULES) 26 November 1997 (1997-11-26) page 6, line 9 - line 20; claim 1 ---	33-35, 46,47
X	WO 97 39721 A (GLIMCHER LAURIE H ;HARVARD COLLEGE (US); HO I CHENG (US); HODGE MA) 30 October 1997 (1997-10-30) abstract; claim 21 ---	51
X	VAN BERGEN J ET AL: "Altered peptide ligands and wild-type peptide induce indistinguishable responses of a human Th0 clone." EUROPEAN JOURNAL OF IMMUNOLOGY, (1998 SEP) 28 (9) 2801-8. , XP002168254 see Title ---	51
P,X	CHANG C C ET AL: "Monocyte-derived CD1a+ and CD1a- dendritic cell subsets differ in their cytokine production profiles, susceptibilities to transfection, and capacities to direct Th cell differentiation." JOURNAL OF IMMUNOLOGY, (2000 OCT 1) 165 (7) 3584-91. , XP000999168 the whole document ---	1-69
A	US 5 962 318 A (ROONEY CLIONA ET AL) 5 October 1999 (1999-10-05) the whole document ---	42-50, 60-67
A	WO 97 33978 A (LIFE TECHNOLOGIES INC) 18 September 1997 (1997-09-18) page 18, line 27 -page 19, line 6 page 32, line 2 - line 14 claims 27,51 ---	1-32
A	WO 98 06823 A (BAXTER INT) 19 February 1998 (1998-02-19) claims -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/01162

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 42-45, 60-67 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/01162

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5849589	A	15-12-1998	NONE	
US 5994126	A	30-11-1999	CA 2133409 A	14-10-1993
			EP 0633929 A	18-01-1995
			US 5851756 A	22-12-1998
			AU 687733 B	05-03-1998
			AU 4046193 A	08-11-1993
			WO 9320185 A	14-10-1993
EP 0808897	A	26-11-1997	AU 732536 B	26-04-2001
			AU 2961597 A	09-12-1997
			CA 2252505 A	27-11-1997
			WO 9744441 A	27-11-1997
			EP 0925356 A	30-06-1999
			JP 2000503545 T	28-03-2000
WO 9739721	A	30-10-1997	US 5958671 A	28-09-1999
			US 5858711 A	12-01-1999
			AU 720455 B	01-06-2000
			AU 3115597 A	12-11-1997
			CN 1225682 A	11-08-1999
			EP 0891425 A	20-01-1999
			JP 2000510333 T	15-08-2000
			US 6090561 A	18-07-2000
US 5962318	A	05-10-1999	NONE	
WO 9733978	A	18-09-1997	AU 2260097 A	01-10-1997
			CA 2248142 A	18-09-1997
			EP 0891419 A	20-01-1999
			JP 2000507812 T	27-06-2000
WO 9806823	A	19-02-1998	AU 4052197 A	06-03-1998
			AU 4069097 A	06-03-1998
			EP 0918847 A	02-06-1999
			EP 0920492 A	09-06-1999
			WO 9806826 A	19-02-1998